Dam Safety

Reinhold Brückner
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Italy built, sometimes after WWII, a hydroelectric dam in the italian alps. Someday, a sismic event created a flood wave that spilt out downstream.
On its way, it annihilated a village with several hundred human beings in their sleep.

China built the Three Gorges Dam on the Yangtse Kiang. Downstream reside several millions of people whose lives are at the mercy of some dam accident that could create a flood wave.
Scenarios are easy to imagine, sismic events, , mountain avalanches, landslides (this happened in Italy), war, ship explosions ...
It would be good to install a construction downstream from the dam to prevent such dangers.
It can be simply a wall across the stream, one kilometer downstream from the dam, with tunnels that allow normal water flow and a sideway that permits passage of fish and ships.
Such a wall will have a height of fifty meters above the waterline and a correspondingly large base.
For those who think this is to high, talk to a sailor and the height of waves that can occur on sea.
The top of this barrier wall can be used commercially or industrially.
A proposal for its location is given on the plan below.
The Three Gorges Dam is built for a thousand years.
Thousand years is a long time.